

Message

From: Qian, Yaorong [qian.yaorong@epa.gov]
Sent: 5/18/2021 7:49:29 PM
To: Nguyen, Thuy [Nguyen.Thuy@epa.gov]; sinisa.urban@maryland.gov
Subject: RE: testing insecticides for PFAS in MD
Attachments: B21-02 oily sample FL method.docx

Hi Dr. Sin Urban,

I am glad to hear that your lab will be interested in testing pesticide products for PFAS. Attached is a sample preparation method we recently developed for the oily matrices (many of the mosquito control pesticide products are formulated with petroleum distillates). We have not fully validated this procedure yet. We only fortified one oily product at 0.025 ppb, 0.05 ppb, 0.125 ppb, and 0.625 ppb levels in three or five replicates and recoveries are consistent at each level. The instrument analysis part follows the 537.1 method.

Please let us know if you have any questions.

Thanks,

Yaorong Qian, Ph.D

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From: Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Sent: Monday, May 17, 2021 2:35 PM
To: Qian, Yaorong <qian.yaorong@epa.gov>
Subject: FW: testing insecticides for PFAS in MD

Can you help Sinisa?

Thanks

Thuy

From: Sinisa Urban, Ph.D. -MDH- <sinisa.urban@maryland.gov>
Sent: Monday, May 17, 2021 2:17 PM
To: Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Subject: testing insecticides for PFAS in MD

Dear Dr Nguyen,

I received your contact information from Kevin Conroy, who is requesting that our state laboratory performs insecticide testing for PFAS, which we are eager to do. I understand that EPA has performed this type of testing previously, so I was hoping that we could get some guidance.

We have Method 537.1 accredited, and have been using it for water testing quite extensively in Maryland (to date we tested ~900 samples over the past 7 months). As you know, from a PEER report, insecticides were sent to Eurofins for testing using Method 537.1. They report the matrix as water, and their MDL is 625x lower relative to water. I thus believe that they diluted 0.4mL of the insecticide stock into 250mL preserved water and proceeded with Method 537.1.

This is our current plan, but wanted to ask if there was another way to proceed. I do not wish to subsample, which Method 537.1 does not allow (ie I do not want insecticides stocks put into an HDPE bottle for us then to have to make up samples at the lab, with the worry that PFAS could stick to the vessel walls), and I am anxious of doing a lower dilution than 625x in case the HIC SPE does not work with high levels of insecticide solvent (ether and petroleum products).

Would you please be able to let me know how EPA tested for PFAS in insecticides to use as guidance for our studies?

Many thanks,
Sin

Sin Urban, Ph.D.

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